DO expectations for Grid/DM projects

Amber Boehnlein
For the DO collaboration

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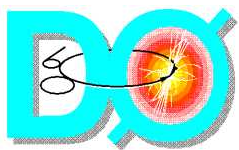
RunJob and related

- **RunJob**
  - **Current scope, direction and management of project is unclear to D0—area of concern**
  - **Draft Runjob requirements in preparation this week at Fresno**
 - **request that this topic be covered in depth at a future forum in July.**

- **Integration of tools**
  - **Specification of functionality and interfaces between (d0)runjob, JIM and experiment-specific tools (d0tools & d0rte for D0 by late July**
  - **Implementation of interfaces and integration by x/05 (more known after interfaces are defined.**

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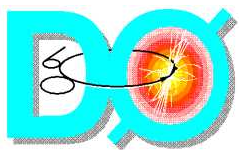
SAM Grid

1. **Grid security and VO management**
   1. **Experiment is very interested in monitoring to estimate production capacity**
2. **Job submission and monitoring (JIM) in production for MC at most MC sites, milestone for this week—(not quite met—see next slide)**
3. **use of JIM on the FNAL farm for MC production by August 1**
4. **use of JIM for data reconstruction by Sept 15th at all sites**
5. **Second generation SAM monitoring needed ASAP.**
6. **Need to understand issues/program of work for running on LCG resources**
7. **Need migration facility for tapes (longer timescale)**
8. **Need SRM interface to station (CDF drives timescale)**
9. **JIM on FNAL analysis platform (March 2005)**
   1. **Solves several current limitations, not having it would lead to duplicate solutions**
10. **Continuation of program to reduce operational load (improved installation scripts, new test harness)**
11. **Full Linux operation by March 2005 (pick_events, operational issues)**

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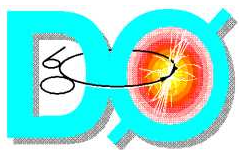
JIM on MC sites

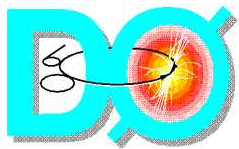1. **In use**
   1. **Ccin2p3, Wisconsin, Manchester, Langston and Lancaster**

2. **Installation in progress**
   2. **OSCER**
   3. **GridKa <requires migration to VDT>**

3. **Foreseen by the end of year or sooner**
   2. **Imperial, WestGrid**
   3. **Ltu, luhep,ouhep,uta-rac,uta-swift,sprace (Sao Paulo) and Tata (mcfarm sites)**
   4. **Nikhef, Czech <hardware resources permitting>**

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Storage Services

1. **Need an SRM interface to enstore, dCache and HPSS(SAM requirement)**

2. **Need migration facility for tapes (longer timescale)**

3. **Would like to use dCache for staging data to and from remote sites by Jan 2005**

4. **Would like to use dCache for online by end of shutdown (pending completion of upgrade of online machines)**

5. **Need resolution of dCache installation and operational issues**

6. **second generation monitoring needed for enstore and dCache ASAP(design and requirements discussion needed)**

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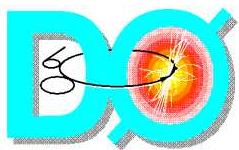
Additional Issues

1. **Not "data management/Grid" but possibly calls on same division resources as above**

    1. **Calibration db proxy servers must go production**
    2. **Luminosity db server**

2. **Facilities issues**

    1. **Test platform supplied on General Purpose Farm by D0--probably need to augment as it is likely that the demand will increase**
    2. **FNAL grid platform--Need to understand timescales and constraints**

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